

## Part A. PERSONAL INFORMATION

CV date 03/7/2022

First and Family name	Gloria Isabel Guzmán Casado		
Social Security, Passport, ID number	24216920J	Age	55
Researcher numbers	Researcher ID		
	Orcid code		<a href="https://orcid.org/0000-0003-1165-7182">https://orcid.org/0000-0003-1165-7182</a>

### A.1. Current position

Name of University/Institution	Universidad Pablo de Olavide		
Department	Dpto. Geografía, Historia y Filosofía		
Address and Country	Carretera de Utrera km. 1 41013 Sevilla		
Phone number	625197482	E-mail	<a href="mailto:giguzcas@upo.es">giguzcas@upo.es</a>
Current position	Ayudante doctor	From	20/9/2018
Espec. cód. UNESCO	3103 (Agronomía)/ 319900 (Environmental Studies)		
Keywords	Environmental History, Agroecology, Energy in Agriculture, Traditional Agricultural Knowledge and Local Varieties, Organic Farming		

### A.2. Education

PhD	University	Year
Ingeniero Agrónomo	Universidad de Córdoba	Julio 1992
Doctor	Universidad de Córdoba	Enero 2002

### A.3. JCR articles, h Index, thesis supervised...

See the impact rates of my contributions in Google Scholar (<https://scholar.google.com/citations?user=FJuTgfYAAAAJ>) and Researchgate ([https://www.researchgate.net/profile/Gloria\\_Guzman/stats/citations](https://www.researchgate.net/profile/Gloria_Guzman/stats/citations)).

Google Scholar => Citations = 4450, index i10 = 77, index h = 35.

Researchgate RG Score = 31,23, my score is higher than 90% of ResearchGate members'

Doctoral theses supervisor: 6 in total, of them 4 in the last 5 years.

Research articles in JCR journals = 35. Of them in the first quartile = 20 (Web of Science)

Books in English = 2; Books in Spanish = 6;

Book chapters in English = 14; Book chapters in Spanish = 37

## Part B. CV SUMMARY (max. 3500 characters, including spaces)

I am currently a professor and researcher of Environmental History, Agroecology & Organic Farming at Pablo de Olavide University (Seville). Doctor of Agronomy, 2002. Program: Agroecology, Peasantry and History, Higher Technical School of Agronomy, University of Cordoba-Spain. I developed my PhD thesis within the framework of the R&D Project: On farm development and evaluation of organic farming systems: the role of livestock and agroforestry. European Union (EU) Project nº AIR3-CT93-0852. The objective of my research was the design of sustainable agroecosystems and their evaluation. My latest R&D project was "Sustainable Farms Systems? A Long-Term History of Spanish Agriculture from a Biophysycal Standpoint". My research focused on the development of Social Metabolism applied to traditional and modern agriculture in Spain and Latin America (coffee-Costa Rica, avocado-Mexico, and livestock-Brazil, Argentina). To this end, I have developed sustainability assessment methodologies such as: "Land Cost of Agrarian Sustainability (LACAS)" and EROIs (Energy Returned on Invested) that consider the biophysical flows and the state of fund

elements (soil, water, biodiversity...) of the agroecosystems. My current I+D project is Agroecological History for Designing Sustainable Landscapes. Case studies from the Mediterranean World. This project uses historiographic techniques and socio-metabolic model in combination with other disciplines such as Agroecology and Landscape Ecology to design more sustainable landscapes.

## **Part C. RELEVANT MERITS**

### **C.1. Publications (including books)**

- Guzmán, G.I., D. Soto, E. Aguilera, J. Infante, M. González de Molina. 2022. The close relationship between biophysical degradation, ecosystem services and family farms decline in Spanish agriculture (1992-2017). *Ecosystem Services* <https://doi.org/10.1016/j.ecoser.2022.101456>, 56 (101456): 1-15
- Aguilera, E., Díaz-Gaona, C., García-Laureano, R., Reyes-Palomo, C., Guzmán, G.I., Ortolani, L., Sánchez-Rodríguez, M., Rodríguez-Estévez V. 2020. Agroecology for adaptation to Climate Change and resource depletion in the Mediterranean region. A review. *Agricultural Systems. Journal Impact Factor (JCR) = 4,131 Q1*. <https://doi.org/10.1016/j.agsy.2020.102809>.
- Aguilera, E., Guzmán, G.I., González de Molina, M., Soto, D., Infante-Amate, J. 2019. From animals to machines. The impact of mechanization on the carbon footprint of traction in Spanish agriculture: 1900–2014. *Journal of Cleaner Production* 221:295-305. JCR = 5,651 Q1 ENVIRONMENTAL SCIENCES.
- Carranza-Gallego, G., Guzmán, G.I., García-Ruiz, R., González de Molina, M., Aguilera, E. 2018. Contribution of old wheat varieties to climate change mitigation under contrasting managements and rainfed Mediterranean conditions. *Journal of Cleaner Production* 195:111-121. Journal Impact Factor (JCR) = 5,715 Q1 ENVIRONMENTAL SCIENCES. <https://doi.org/10.1016/j.jclepro.2018.05.188>
- Guzmán, G.I., Aguilera, E., García-Ruiz, R., Torremocha, E., Soto, D., Infante-Amate, J., González de Molina, M. 2018. The Agrarian Metabolism as a tool for assessing agrarian sustainability, and its application to Spanish Agriculture (1960-2008). *Ecology and Society* 23(1):2. Journal Impact Factor (JCR) = 2,842 Q1= ENVIRONMENTAL STUDIES
- Aguilera, E., Guzmán, G.I., Álvaro-Fuentes, J., Infante-Amate, J., García-Ruiz, R., Carranza-Gallego, G., Soto, D., González de Molina, M. 2018. A historical perspective on soil organic carbon in Mediterranean cropland (Spain, 1900-2008). *Science of the Total Environment*, 621, 634-648. Journal Impact Factor (JCR) = 4,900 in 2016 Q1= ENVIRONMENTAL STUDIES.
- Guzmán, G.I., González de Molina, M., Soto Fernández, D., Infante-Amate, J., Aguilera, E. 2018. Spanish agriculture from 1900 to 2008: a long-term perspective on agroecosystem energy from an agroecological approach. *Regional Environmental Change*, 18:995-1008. DOI: 10.1007/s10113-017-1136-2. Journal Impact Factor (JCR) (2016) = 2,919 Q1 = ENVIRONMENTAL STUDIES.
- Gingrich, S., Marco, I., Aguilera, E., Padró, R., Cattaneo, C., Cunfer, G., Guzmán, G.I., MacFadyen, J., Watson, A. 2018. Agroecosystem energy transitions in the old and new worlds: Trajectories and determinants at the regional scale. *Regional Environmental Change*, 18:1089–1101. Journal Impact Factor (JCR) (2016) = 2,919 Q1 = ENVIRONMENTAL STUDIES
- Guzmán G.I., and M. González de Molina. 2017. *Energy in Agroecosystems: A Tool for Assessing Sustainability*. Boca Raton (FL): CRC Press.
- Gutiérrez, E., Aguilera, E., Lozano, S., Guzmán, G.I. 2017. A two-stage DEA approach for quantifying and analysing the inefficiency of conventional and organic rain-fed cereals in Spain. *Journal of Cleaner Production*, 149, 335-348. Journal Impact Factor (JCR) = 5,715 Q1 ENVIRONMENTAL SCIENCES

Aguilera, E., Guzmán, G.I., Alonso, A.M. 2015. Greenhouse gas emissions from conventional and organic cropping systems in Spain. II. Fruit tree orchards. *Agronomy for Sustainable Development*, 35: 725-737. Journal Impact Factor (JCR) = 4,141 Q1 AGRONOMY

Guzmán, G.I., López, D., Román, L., Alonso, A.M. 2015. Participatory Action Research for an Agroecological Transition in Spain. Building Local Organic Food Networks. In E, Méndez et al., eds. *Agroecology: A Transdisciplinary, Participatory and Action-Oriented Approach*. Ed: CRC Press. Boca Raton, FL (USA). pp. 137-158.

## C.2. Research projects and grants

TITLE: Value enhancement of the Sierra de la Contraviesa's genetic heritage (Grenade)

PROJECT IDENTIFICATION CODE: PROYECTO 92162/1, nº 16

FUNDED BY: IFAPA (Consejería de Innovación, Ciencia y Empresa)

PROJECT TIMEFRAME, FROM: October 2005 TO: October 2008

IP: Gloria I. Guzmán Casado

TITLE: Agrarian transformations and changes in landscape, 1752-2008. A contribution to the study of socio-ecological transition in Andalusia

PROJECT IDENTIFICATION CODE: HAR2009-13748-C03-03

FUNDED BY: Ministerio de Innovación y Ciencia (Spain)

PROJECT TIMEFRAME, FROM: 2009 TO: 2012

IP: Manuel González de Molina Navarro (Pablo de Olavide University)

TITLE: Sustainable Farm Systems: long-term socio-ecological metabolism in western agriculture.

PROJECT IDENTIFICATION CODE: SSHRC 895-2011-1020

FUNDED BY: Social Science and Humanities Research Council of Canada

PROJECT TIMEFRAME, FROM: april 2012 TO: mars 2017

IP: Geoff Cunfer (University of Saskatchewan-Canada)

TITLE: Sustainable farm systems and transitions in agricultural metabolism: social inequality and institutional changes in Spain (1750-2010).

PROJECT IDENTIFICATION CODE: HAR2012-38920-C02-01

FUNDED BY: Ministerio de Economía y Competitividad (Spain)

PROJECT TIMEFRAME, FROM: 2013 TO: 2015

IP: Manuel González de Molina Navarro (Pablo de Olavide University)

TITLE: Sustainable farm systems: An historical interpretation of Spanish agriculture from a biophysical perspective

PROJECT IDENTIFICATION CODE: HAR2015-69620-C2-2-P

FUNDED BY: Ministerio de Economía y Competitividad (Spain)

PROJECT TIMEFRAME, FROM: 2016 TO: 2018

TITLE: Historia agroecológica para el diseño de paisajes sustentables. Caso de estudio del mundo mediterráneo. CODE: RTI2018-093970-B-C31.

FUNDED BY: Ministerio de Ciencia e Innovación. 2019-2021.

PROJECT TIMEFRAME, FROM: 2019 TO: 2022

TITLE: Novel approaches to promote the sustainability of olive cultivation in the Mediterranean, SUSTAINOLIVE.

FUNDED BY: European Union, Partnership for Research and Innovation in the Mediterranean Area Programme (PRIMA)

PROJECT TIMEFRAME, FROM: 2019 TO: 2024.

## C.3. Coordinator and / or teacher of the following Postgraduate Programs

- ✓ *Master's Degree in Agroecology: an Approach to Rural Sustainability*. Years 2011 to the present (Teacher and member of the academic commission).  
<https://www.upo.es/postgrado/en/Master-Agroecology-an-Approach-to-Rural-Sustainability>

- ✓ *Master's Degree in Organic Farming*. Years 2011 to the present (coordinator and teacher). <https://www.upo.es/postgrado/en/Master-Organic-Farming>
- ✓ *PhD Programme in Environment and Society* Years 2011 to the present (teacher) <http://www.upo.es/postgrado/en/PhD-Environment-and-Society>

## **C.4. Doctoral Theses supervisor (6 in total, of them 4 in the last 5 years). I include the last doctoral thesis defended and another in process.**

TITLE: The influence of management practices on the greenhouse gas balance of Mediterranean cropping systems. Identifying the climate change mitigation potential through quantitative review and life cycle assessment

DOCTORAL STUDENT: Eduardo Aguilera Fernández

UNIVERSITY: Pablo de Olavide University      PhD Programme: Environment and Society

YEAR: 2016

GRADE: Sobresaliente cum Laude. Tesis Europea

TITLE: Contribution of the old varieties to agrarian sustainability. A comparative study of traditional and modern cerealist agroecosystem in Spain

DOCTORAL STUDENT: Guiomar Carranza Gallego

UNIVERSITY: Pablo de Olavide University      PhD Programme: Environment and Society

YEAR: 2019

GRADE: Sobresaliente cum Laude. Tesis Europea

## **C.5. Guest professor in foreign universities:**

Colegio de Postgraduados de México. Campus Montecillo.

- ✓ FUNDAMENTOS DE AGRICULTURA ORGÁNICA. Capacitación para obtener la certificación orgánica participativa en el Mercado Alternativo de Pequeño Productor (MAPP), 24-28 de octubre de 2016. 6,5 horas.

Universidade Federal Rural de Pernambuco-Brasil

- ✓ Seminario *Metabolismo Social Agrário*, 29 de setembro a 14 de outubro de 2015. 30 h
- ✓ Seminario *Transição Agroecológica e a experiencia da Espanha*, 14/10/2015. 4 horas.

Universidad Nacional de Costa Rica

Taller de Metabolismo Social en Seminario de Metabolismo Social. 21 a 24/4/2015. 5 horas

Universidad de La Frontera Temuco (Chile)

Profesora invitada 4 meses en Programa Atracción de Capital Humano Avanzado del extranjero. CONCICYT-Chile.

## **C.6. Member of the Editorial Board:**

Journal: Historia Agraria. JCR: 2018 Impact Factor 0.694 Q2

Journal: Agroecology and Sustainable Food Systems. JCR: 2018 Impact Factor: 1.140 Q2 (Agriculture, Multidisciplinary).

Revista Agroecología, Academic Journal of the Spanish Society of Organic Farming (SEAE).

## **C.7. Research Awards:**

**“Andrés Núñez de Prado Award for Research in Organic Farming”**. Year 2000. In collaboration with D. Gregorio Díaz and D<sup>a</sup>. Auxiliadora Vecina.

**Awards of recognition for the work carried out in rural areas:** Award to the “Research and Training Centre for Organic Farming and Rural Development (CIFAED)”, for its outstanding work in favour of agrarian sustainability. Award granted by the *Avutarda Bujalanceña Association* and the *Bujalance City Council*. April 25, 2008.

**Awards of recognition for the work carried out in the Vega de Granada:** Award to the “Research and Training Centre for Organic Farming and Rural Development (CIFAED)”, for his outstanding work in the Vega de Granada. Award granted by the *Salvemos La Vega Association* and Ecologists in Action. Year 2009.

**C.8. Presidente de ALIMENTTA-THINK TANK para la transición alimentaria.** Scientific association dedicated to promoting sustainable food. Since its foundation: 2021. [www.alimentta.com](http://www.alimentta.com)